(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 13 October 2005 (13.10.2005)

PCT

(10) International Publication Number WO 2005/096065 A1

(51) International Patent Classification⁷: G02B 26/02, G09F 9/37

(21) International Application Number:

PCT/GB2005/001054

(22) International Filing Date: 22 March 2005 (22.03.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0407642.8

2 April 2004 (02.04.2004) GB

(71) Applicant (for all designated States except US): EAST-MAN KODAK COMPANY [US/US]; 343 State Street, Rochester, NY 14650-2201 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): WELFARE, Eloise

[GB/GB]; 13 Flint Way, St Albans, Hertfordshire, AL3 6DU (GB). **CLARKE, Andrew** [GB/GB]; 15 Charles Street, Berkhampstead, Hertfordshire HP4 3DG (GB).

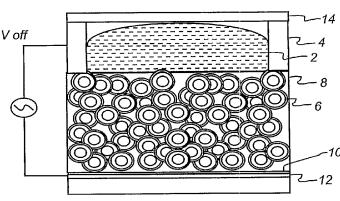
(74) Agent: BARKER, Brenda; Kodak Limited, Patent Department (W92-3A), Headstone Drive, Harrow, Middlesex, HA1 4TY (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

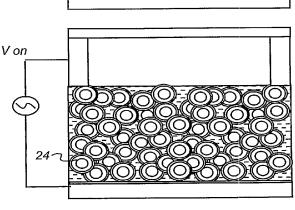
[Continued on next page]

(54) Title: ELECTROWETTING DISPLAY ELEMENT



(57) Abstract: A display element comprising a single layer of porous material, a discrete drop of liquid and means for connecting a voltage supply to the layer, the layer comprising a plurality of conductive particles covered with a lyophobic and electrically insulating covering, whereby on application of a voltage between the liquid and the layer the drop of liquid moves into the layer, the drop moving back out the layer upon removal of the voltage, the movement of the liquid effecting an optical change when viewed from above the porous layer.





WO 2005/096065 A1

GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.